Reliable long-term storage solution

CryoPlus sample storage systems

Thermo Scientific™ CryoPlus™ systems provide the perfect combination of liquid nitrogen storage reliability and microprocessor technology. Storage capacities of up to 39,000 2.0 mL vials (8,450 to 65,910 Thermo Scientific™ Nunc™ Cryobank™ vials) make the most of your laboratory storage space.

Storage system features

- Top-mounted control panel allows easy access to the unit's microprocessor controller for programming

- All lids incorporate proprietary foamed-in-place, high-density urethane insulation with dedicated vent; two independent, flexible gaskets reduce the migration of moisture into the chamber and reduce icing

- 24 tricolor LEDs continuously display actual liquid nitrogen level and high-level/low-level setpoints

- Remote alarm contacts for in-house remote alarms or connection to a Thermo Scientific™ Sensaphone™ Telephone Dialing System

- Counterbalanced UL 61010 third edition–compliant lid with 100% clearance allows each entry into the storage area for retrieval of samples, while minimizing sample exposure time and maintaining a safe work environment

- Heavy-duty casters are provided standard

- Incorporates a temperature sleeve as a standard feature, which provides colder temperatures at the top and more efficient operation in vapor phase

- Storage tanks are vacuum-insulated, with stainless steel interior

- Exterior cabinet is constructed of 18-gauge, cold roll steel with powder-coat paint for durability and a high-quality uniform finish; salt spray tests exceed 1,000 hours per ASTM Standard 117B-85

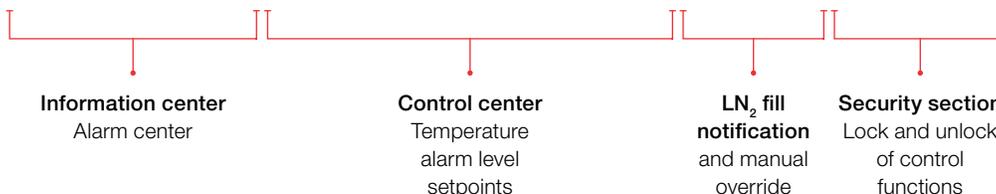- All models come standard with LN$_2$ transfer hose

For maximum product security, CryoPlus systems incorporate three different solutions

- A convenient front-mounted cabinet key lock for sample security

- A keyed lock on the microprocessor for temperature and alarm setpoint security

- A rear-mounted, recessed power switch to prevent accidental power shut-off

A complete sample storage offering for vapor or liquid phase

- Square and vertical racks for vial storage

- Frames and canisters for bag storage

- Specialty racks for cane storage

- Gas bypass assembly delivers warm nitrogen to atmosphere until the control probe reaches set temperature. The bypass valve closes and the fill valve is energized, preventing the storage area from being subjected to warm nitrogen gas. This is also required if the CryoPlus unit is connected to a manifold system to prevent LN$_2$ source alarms.

CryoPlus system information panel

Information center	Control center	LN$_2$ fill notification	Security section
Alarm center	Temperature alarm level setpoints	and manual override	Lock and unlock of control functions

CryoPlus sample storage systems

| Model	Cat. No.	LN$_2$ capacity (liters)	Vial capacity 1.2–2.0 mL (CryoBank)	Electrical	Plug type	Inner tank diameter in. (cm)	Exterior dimensions H x W x D in. (cm)	Shipping weight	Regulatory listings	LN$_2$ and utility connection
CryoPlus 1 system	7400	90	6,318[1] (8,450[2,3])	115v/60 Hz	NEMA 5-15P	16 (40.6)	41 x 21.5 x 26 (104.1 x 54.6 x 66)	260 lbs/ 117.9kg	CFDA, cULus and CE	All models require 22 psi low pressure supply tank and are supplied with (1) 0.5 in. 45º flare stainless steel flexible transfer hose
	7401			208-230v/50 Hz	CEE 7/7					
CryoPlus 2 system	7402	200	13,500[2] (22,815[2,3])	115v/60 Hz	NEMA 5-15P	24 (61)	41 x 28.5 x 34 (104.1 x 72.4 x 86.4)	480 lbs/ 217.7 kg		
	7403			208-230v/50 Hz	CEE 7/7					
CryoPlus 3 system	7404	340	23,000[2] (38,870[2,3])	115v/60 Hz	NEMA 5-15P	31 (78.7)	41 x 34.5 x 41.5 (104.1 x 87.6 x 105.4)	550 lbs/ 249 kg		
	7405			208-230v/50 Hz	CEE 7/7					
CryoPlus 4 system	7406	552	39,000[2] (65,910[2,3])	115v/60 Hz	NEMA 5-15P	39.5 (110.3)	47 x 43.5 x 50 (119.4 x 110.5 x 127)	1070 lbs/ 484.3 kg		
	7407			208-230v/50 Hz	CEE 7/7					

1 Using arrowhead racks no. 4000044.

2 Using vertical racks no. 4000012 and dense storage tube boxes.

3 Using Thermo Scientific™ Nunc™ Cryobank™ dense storage boxes (196-cell) and 1 mL Cryobank tubes.

Thermo Scientific™ CryoPlus™ vapor phase starter kits

| Model	Cat. No.	LN$_2$ capacity (liters)	Electrical	Description
CryoPlus 1 Vapor Phase Starter Kit	7400RAKHGBR	90	120V 50/60Hz	Package includes CryoPlus 1 (model 7400) and a hot gas bypass option, 4 storage rack (rack 4000001), and a 3.5" riser, UL
	7401RAKHGBR		230V 50/60Hz	Package includes CryoPlus 1 (model 7401) and a hot gas bypass option, 4 storage rack (rack 4000001), and a 3.5" riser, CE
CryoPlus 2 Vapor Phase Starter Kit	7402RAKHGBR	200	120V 50/60Hz	Package includes CryoPlus 2 (model 7402) and a hot gas bypass option, 10 storage rack (rack 4000001), and a 3.5" riser, UL
	7403RAKHGBR		230V 50/60Hz	Package includes CryoPlus 2 (model 7403) and a hot gas bypass option, 10 storage rack (rack 4000001), and a 3.5" riser, CE
CryoPlus 3 Vapor Phase Starter Kit	7404RAKHGBR	340	120V 50/60Hz	Package includes CryoPlus 3 (model 7404) and a hot gas bypass option, 17 storage rack (rack 4000001), and a 3.5" riser, UL
	7405RAKHGBR		230V 50/60Hz	Package includes CryoPlus 3 (model 7405) and a hot gas bypass option, 17 storage rack (rack 4000001), and a 3.5" riser, CE
CryoPlus 4 Vapor Phase Starter Kit	7406RAKHGBR	552	120V 50/60Hz	Package includes CryoPlus 4 (model 7406) and a hot gas bypass option, 29 storage rack (rack 4000001), and a 3.5" riser, UL
	7407RAKHGBR		230V 50/60Hz	Package includes CryoPlus 4 (model 7407) and a hot gas bypass option, 29 storage rack (rack 4000001), and a 3.5" riser, CE
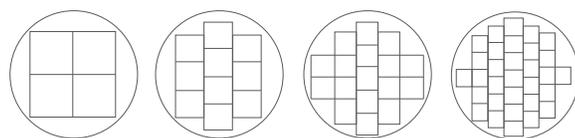
CryoPlus rack selection guide

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
Square racks for liquid phase storage							
	4000006* Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials	27.4 x 5.5 x 5.63 (69.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	13	13	13	13
			Vials per box	100	100	100	100
			Vials per vessel	5,200	13,000	22,100	37,700
	4000007 Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials	27.4 x 5.5 x 5.63 (69.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	13	13	13	13
			Vials per box	100	100	100	100
			Vials per vessel	5,200	13,000	22,100	37,700
	4000042 Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials	26 x 5.5 x 5.63 (66 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	12	12	12	12
			Vials per box	100	100	100	100
			Vials per vessel	4,800	12,000	20,400	34,800
	4000008 Rack includes cardboard boxes and cardboard dividers for 4 mL vials	25.4 x 5.5 x 5.63 (64.5 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	8	8	8	8
			Vials per box	100	100	100	100
			Vials per vessel	3,200	8,000	13,600	23,200
	4000009 Rack includes stainless steel boxes and cardboard dividers for 4 mL vials	25.4 x 5.5 x 5.63 (64.5 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	8	8	8	8
			Vials per box	100	100	100	100
			Vials per vessel	3,200	8,000	13,600	23,200
	4000010 Rack includes cardboard boxes and cardboard dividers for 5 mL vials	26.6 x 5.5 x 5.63 (67.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
			Boxes per rack	7	7	7	7
			Vials per box	100	100	100	100
			Vials per vessel	2,800	7,000	11,900	20,300

* Rack no. 4000006 will not accommodate polycarbonate boxes; use rack no. 4000042 instead.
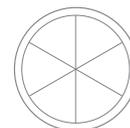
CryoPlus rack selection

Cat. No. and description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
Square racks for vapor phase storage						
4000001 Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	11	11	11	11
		Vials per box	100	100	100	100
		Vials per vessel	4,400	11,000	18,700	31,900
4000002 Rack includes stainless steel boxes for 1.5/2 mL vials	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	11	11	11	11
		Vials per box	100	100	100	100
		Vials per vessel	4,400	11,000	18,700	31,900
4000003 Rack includes cardboard boxes and cardboard dividers for 4 mL vials	22.3 x 5.5 x 5.63 (56.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	7	7	7	7
		Vials per box	100	100	100	100
		Vials per vessel	2,800	7,000	11,900	20,300
4000004 Rack includes stainless steel boxes and cardboard dividers for 4 mL vials	22.3 x 5.5 x 5.63 (56.6 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	7	7	7	7
		Vials per box	100	100	100	100
		Vials per vessel	2,800	7,000	11,900	20,300
4000005 Rack includes cardboard boxes and cardboard dividers for 5 mL vials	22.8 x 5.5 x 5.63 (57.9 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Boxes per rack	6	6	6	6
		Vials per box	100	100	100	100
		Vials per vessel	2,400	6,000	10,200	17,400
Specialty racks						
4000379 SUC-1 rack for cane storage (includes canisters #4000176)	23.9 x 5.5 x 5.63 (60.7 x 14 x 14.3)	Racks per vessel	4	10	17	29
		Canisters per rack	8	8	8	8
		Canes per canister	25	25	25	25
		Canes per vessel	800	2,000	3,400	5,800
Platform risers required for racks in vapor phase storage						
3.5" riser for use with 4000001, 4000002, and 4000379 racks			**4000060**	**4000060**	**4000063**	**4000066**
4" riser for use with 4000005 racks			**4000056**	**4000062**	**4000065**	**4000068**
5" riser for use with 4000003 and 4000004 racks			**4000061**	**4000061**	**4000064**	**4000067**
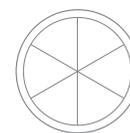
Arrowhead racks for liquid phase storage

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system
	4000044		Racks per vessel	6
		28.1 x 7.8 x 7.5 (71.4 x 19.8 x 19.1)	Boxes per rack	13
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Vials per box	81
			Vials per vessel	6,318
	4000112		Racks per vessel	6
		26 x 7.8 x 7.5 (66 x 19.8 x 19.1)	Boxes per rack	12
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Vials per box	81
			Vials per vessel	5,832
	4000113		Racks per vessel	6
		26 x 7.8 x 7.5 (66 x 19.8 x 19.1)	Boxes per rack	12
	Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials		Vials per box	81
			Vials per vessel	5,832
	4000104		Racks per vessel	6
		25.4 x 7.8 x 7.5 (64.5x 19.8 x 19.1)	Boxes per rack	8
	Rack includes cardboard boxes and cardboard dividers for 4 mL vials		Vials per box	81
			Vials per vessel	3,888
	4000105		Racks per vessel	6
		25.4 x 7.8 x 7.5 (64.5x 19.8 x 19.1)	Boxes per rack	8
	Rack includes stainless steel boxes and cardboard dividers for 4 mL vials		Vials per box	81
			Vials per vessel	3,888
	4000043		Racks per vessel	6
		26.5 x 7.8 x 7.5 (67.3 x 19.8 x 19)	Boxes per rack	7
	Rack includes cardboard boxes and cardboard dividers for 5 mL vials		Vials per box	81
			Vials per vessel	3,402

Arrowhead racks for vapor phase storage

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system
	4000110	23.8 x 7.8 x 7.5 (60.5 x 19.8 x 19.1)	Racks per vessel	6
			Boxes per rack	11
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Vials per box	81
			Vials per vessel	5,346
	4000111	23.8 x 7.8 x 7.5 (60.5 x 19.8 x 19.1)	Racks per vessel	6
			Boxes per rack	11
	Rack includes stainless steel boxes and cardboard dividers for 1.5/2 mL vials		Vials per box	81
			Vials per vessel	5,346
	4000108	21.6 x 7.8 x 7.5 (54.9 x 19.8 x 19.1)	Racks per vessel	6
			Boxes per rack	10
	Rack includes cardboard boxes and cardboard dividers for 2 mL vials		Vials per box	81
			Vials per vessel	4,860

Platform risers required for racks in vapor phase storage

	Description of riser and racks for intended use	CryoPlus 1 system
	3.5 in. riser for use with 4000110 and 4000111 racks	**4000060**
	5 in. riser for use with 4000108 racks	**4000061**

Arrowhead boxes and dividers for vapor phase storage

	Cat. No.	Description
	Boxes	
	4000193	Arrowhead cardboard box (with drain hole) includes 81-cell divider for use with 1.5/2 mL vials
	4000194	Arrowhead stainless steel box (with drain hole) does not include 81-cell divider for use with 1.5/2 mL vials
	4000195	Arrowhead cardboard box (with drain hole) includes 81-cell divider for use with 4/5 mL vials
	4000196	Arrowhead stainless steel box (with drain hole) does not include 81-cell divider for use with 4 mL vials
	Cell dividers	
	4000181	81-cell divider for use with all arrowhead boxes
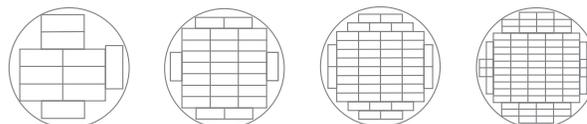
Vertical racks for liquid phase storage

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
Vertical rack for liquid phase storage							
	4000012	27.6 x 2.3 x 5.7 (70.1 x 5.8 x 14.5)	Racks per vessel	10	27	46	78
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	5	5	5	5
			Vials per box	100	100	100	100
			Vials per vessel	5,000	13,500	23,000	39,000
Vertical rack for vapor phase storage							
	4000011	22.2 x 2.3 x 5.7 (56.4 x 5.8 x 14.5)	Racks per vessel	10	27	46	78
	Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials		Boxes per rack	4	4	4	4
			Vials per box	100	100	100	100
			Vials per vessel	4,000	10,800	18,400	31,200
Platform risers required for racks in vapor phase storage							
Description of riser and racks for intended use							
	5 in. riser for use with 4000011 racks			**4000061**	**4000061**	**4000064**	**4000067**

Boxes and dividers

	Cat. No.	Description
	4000014	Cardboard box with 100-cell divider for use with 1.5/2 mL vials (does have drain hole)
	820010	Polycarbonate box with 100-cell divider for use with 1.5/2 mL vials with internal threaded caps (does have drain hole)
	820011	Polycarbonate box with 81-cell divider for use with 1.5/2 mL vials (does have drain hole)

Lid locking pins

Cat. No.	Description
1890632	Factory-installed lid-locking pins (allows customers to securely lock the lid in the open position as a secondary user-safety feature)*
1890633	Certified technician (field-installed) lid-locking pins (allows customers to securely lock the lid in the open position as a secondary user-safety feature)

* Lid-locking pins are not available as factory-installed items when a CryoPlus vapor-phase starter SKU is ordered.

Frames and canisters for liquid phase storage

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
	4000670	27.4 x 0.6 x 4.6 (69.6 x 1.5 x 11.7)	Frames per vessel	28	72	124	204
			Canisters per frame	7	7	7	7
	Frame for 4000610 canister		Canisters per vessel	196	504	868	1,428
	1900585	27.4 x 0.6 x 3.8 (69.6 x 1.5 x 9.7)	Frames per vessel	34	100	184	314
			Canisters per frame	7	7	7	7
	Frame for 1950831 canister		Canisters per vessel	238	700	1,288	2,198
	4000371	23.7 x 0.6 x 6.5 (60.2 x 1.5 x 16.5)	Frames per vessel	28	68	108	186
			Canisters per frame	4	4	4	4
	Frame for 4000335 canister		Canisters per vessel	112	272	432	744
	4000372	23.8 x 0.7 x 8.2 (60.5 x 1.8 x 20.8)	Frames per vessel	22	50	90	154
			Canisters per frame	4	4	4	4
	Frame for 4000336 canister		Canisters per vessel	88	200	360	616
	4000368	26.4 x 0.9 x 6.1 (67.1 x 2.3 x 15.5)	Frames per vessel	19	46	72	126
			Canisters per frame	4	4	4	4
	Frame for 4000332 and 4000356 canisters		Canisters per vessel	76	184	288	504
	4000369	26.4 x 1 x 10 (67.1 x 2.5 x 25.4)	Frames per vessel	10	28	48	84
			Canisters per frame	4	4	4	4
	Frame for 4000333 and 4000357 canisters		Canisters per vessel	40	112	192	336

Frames and canisters for vapor phase storage

Cat. No. and description		Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
	4000660	23.5 x 0.6 x 4.6 (59.7 x 1.5 x 11.7)	Frames per vessel	28	72	124	204
			Canisters per frame	6	6	6	6
	Frame for 4000610 canister		Canisters per vessel	168	432	744	1,224
	1900584	23.5 x 0.6 x 3.8 (59.7 x 1.5 x 9.7)	Frames per vessel	34	100	184	314
			Canisters per frame	6	6	6	6
	Frame for 1950831 canister		Canisters per vessel	204	600	1,104	1,884
	4000371	23.7 x 0.6 x 6.5 (60.2 x 1.5 x 16.5)	Frames per vessel	28	68	108	186
			Canisters per frame	4	4	4	4
	Frame for 4000335 canister		Canisters per vessel	112	272	432	744
	4000372	23.8 x 0.7 x 8.2 (60.5 x 1.8 x 20.8)	Frames per vessel	22	50	90	154
			Canisters per frame	4	4	4	4
	Frame for 4000336 canister		Canisters per vessel	88	200	360	616

Platform risers required for frames in vapor phase storage

|	Description of riser and frames for intended use	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
	3.5 in. riser for use with 4000371 and 4000372 frames	4000060	4000060	4000063	4000066
	4 in. riser for use with 4000660 frames	4000056	4000062	4000065	4000068

Platform dividers

	Description of platform divider and frames for intended use	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
	Platform divider for use with 4000660 and 4000670 25 mL frames: 1900584 and 1900585	4000616	4000624	4000631	4000639
	Platform divider for use with 4000371 frames	N/A	4000075	4000050	4000053
	Platform divider for use with 4000372 frames	N/A	4000076	4000051	4000054
	Platform divider for use with 4000368 frames	N/A	N/A	4000047	4000052
	Platform divider for use with 4000369 frames	N/A	N/A	4000048	N/A

Canisters

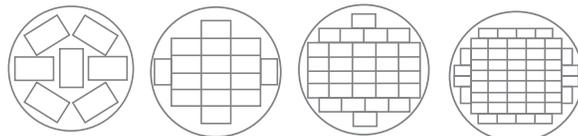|	Cat. No. and description	Dimensions H x W x D in. (cm)
	1950831 Swing arm canister for 25 mL bag (OriGen CS 25 or equivalent)	3.6 x 3.915 x .375 (9.14 x 9.94 x 0.95)
	4000610 Swing arm canister for 50 mL bag (Fenwal 4R9951 or OriGen CS 50)	3.7 x 6.3 x 0.5 (9.4 x 16 x 1.3)
	4000335 Sliding canister for 250 mL bag (Fenwal 4R5461 or OriGen CS 250, CryoMACS 50 and 250	5.5 x 7.6 x 0.4 (14 x 19.3 x 1)
	4000336 Sliding canister for 500 mL bag (Fenwal 4R5462 or OriGen CS 500)	5.6 x 9.2 x 0.4 (14.2 x 23.4 x 1)
	4000332 Sliding canister for 200 mL bag (Gambro DF-200 or equivalent)	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)
	4000356 Swing arm canister for 200 mL bag (Gambro DF-200 or CryoMACS 250)	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)
	4000333 Sliding canister for 700 mL bag (Gambro DF-700 or CryoMACS 500 and 750 and OriGen CS 750 and CS 1000)	6.5 x 11.8 x 0.8 (16.5 x 30 x 2)
	4000357 Swing arm canister for 700 mL bag (Gambro DF-700 or CryoMACS 500 and 750 and OriGen CS 750 and CS 1000)	6.5 x 12.1 x 0.8 (16.5 x 30.7 x 2)
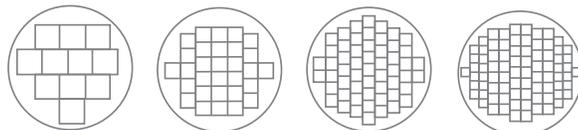
Mini square racks for liquid phase storage

Cat. No. and description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
4000260		Racks per vessel	11	30	55	92
Rack includes cardboard boxes and cardboard dividers for 1.5/2 mL vials	26.2 x 3.3 x 3.4 (66.5 x 8.4 x 8.6)	Boxes per rack	12	12	12	12
		Vials per box	25	25	25	25
		Vials per vessel	3,300	9,000	16,500	27,600

Mini boxes for liquid phase storage

	Cat. No.	Description
Boxes	189470	Mini cardboard box - 2.75 in. x 2.75 in. x 2 in. for use with 25-cell divider for use with 1.5/2 mL vials
Cell dividers	189387	25-cell divider for use in the 189470 box

Racks for Thermo Scientific™ Matrix™ 2D tubes

Cat. No. and description	Dimensions H x W x D in. (cm)	Storage	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
Liquid phase						
1950836 Rack for Matrix 2D plates measuring 1.082 in. to 1.394 in. tall	27 x 5.313 x 3.65 (68.6 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	18	18	18	18
		Plates per vessel	126	288	900	918
1950839 Rack for Matrix 2D plates measuring 1.55 in. to 2.15 in. tall	27.15 x 5.313 x 3.65 (69 x 13.5 x 9.3)	Racks Per vessel	7	16	30	51
		Plates per rack	12	12	12	12
		Plates per vessel	84	192	360	612
1950840 Rack for Matrix 2D plates measuring 2.3 in. tall	27.5 x 5.313 x 3.65 (69.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	11	11	11	11
		Plates per vessel	77	176	330	561
1950841 Rack for Matrix 2D plates measuring 3.78 in. tall	27.5 x 5.313 x 3.65 (69.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	7	7	7	7
		Plates per vessel	49	112	210	357
Vapor phase						
1950832 Rack for Matrix 2D plates measuring 1.082 in. to 1.394 in. tall	22.5 x 5.313 x 3.65 (57.2 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	15	15	15	15
		Plates per vessel	105	240	450	765
1950833 Rack for Matrix 2D plates measuring 1.55 in. to 2.15 in. tall	22.6 x 5.313 x 3.65 (57.4 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	10	10	10	10
		Plates per vessel	70	160	300	510
1950834 Rack for Matrix 2D plates measuring 2.3 in. tall	22.5 x 5.313 x 3.65 (57.2 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	9	9	9	9
		Plates per vessel	63	144	270	459
1950835 Rack for Matrix 2D plates measuring 3.78 in. tall	19.65 x 5.313 x 3.65 (49.9 x 13.5 x 9.3)	Racks per vessel	7	16	30	51
		Plates per rack	5	5	5	5
		Plates per vessel	35	80	150	255

Platform risers required for racks in vapor phase storage					
	Description of riser and racks for intended use	CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
	5 in. riser for use with 1950832, 1950833, 1950834, and 1950835 racks	4000061	4000061	4000064	4000067

Boxes and dividers

Cat. No.	Description
Boxes	
4000014	Cardboard box with 100-cell divider for use with 1.5/2 mL vials (does have drain hole)
4000015	Cardboard box with 100-cell divider for use with 4/5 mL vials (does have drain hole)
820010	Polycarbonate box with 100-cell divider for use with 1.5/2 mL vials with internal threaded caps (does have drain hole)
820011	Polycarbonate box with 81-cell divider for use with 1.5/2 mL vials (does have drain hole)
4000238	Stainless steel box for 1.5/2 mL vials (does not include 100-cell divider)
4000239	Stainless steel box for 4 mL vials (does not include 100-cell divider)
Cell dividers	
4000013	100-cell divider for use in the 4000014, 4000015, 4000238, and 4000239 boxes

Other accessories for CryoPlus systems

Cat. No. and description		CryoPlus 1 system	CryoPlus 2 system	CryoPlus 3 system	CryoPlus 4 system
Recorder kit					
	Factory installed 120 volt, 50/60 Hz with 6 in. diameter circular chart, 7-day temperature recorder, pen and chart drive (Specify top, left and right side mount; right side is default if not specified)	201175			
	Factory installed 220 volt, 50/60 Hz with 6 in. diameter circular chart, 7-day temperature recorder, pen and chart drive (Specify top, left and right side mount; right side is default if not specified)	201280			
	Replacement felt tip pen	245231			
	Replacement circular chart paper	197064			
Hot gas bypass valve assembly					
	Factory installed 120 volt, 50/60 Hz	195021			
	Field installed (QI) 120 volt, 50/60 Hz	195700			
	Factory installed 220 volt, 50/60 Hz	195023			
	Field installed (QI) 220 volt, 50/60 Hz	195701			
Thermal temperature sleeve (27" tall for improved temperature uniformity)					
	Factory installed	Standard, factory-installed option			
	Customer installed/retrofit	1950706	1950707	1950708	1950709
Thermal data printed					
	120V, 60 Hz Printer with cable assembly and RS-232 connector kit	4000565			
	220V, 50 Hz Printer with cable assembly and RS-232 connector kit	4000665			
	Thermal printer paper (5 rolls/package)	4000566			
RJ-11 Remote Alarm Cable Kit					
	Used to connect remote alarm to equipment	400142			

Quality services available (must be ordered with equipment)

260049	Certification of compliance (unit specific)
260045	Temperature mapping
260043	Certificate of conformance